

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A system for remote controlling and monitoring a home appliance, comprising:
 - a first home appliance having a master function, the master function being provided only to the first home appliance;
 - at least one second home appliance having a slave function, wherein the master function is configured to control the slave function; and
 - a communication line path for communication only between the first home appliance and at least one of the second home appliances.

2. (Currently Amended) The system of claim 1, wherein a personal computer ~~capable of~~ communicating with ~~exterior~~ remote appliances is ~~used as~~ the first home appliance.

3. (Currently Amended) The system of claim 1, wherein the master function includes:
 - an application layer ~~for performing functions of~~ producing a command code and a factor code from packet data of a received message and analyzing a return packet;
 - a data connecting layer ~~for performing functions of~~ constituting a packet of data to be transmitted, producing an error checking code, and repeatedly transmitting the packet if a return packet is a NAK or not found; and
 - a physical layer ~~for performing functions of~~ checking an address of the packet produced in the data connecting layer, determining whether a communication line path between the master

~~and slave~~ first appliance and the second appliance is vacant to transmit the packet, and delivering the transmitted packet to the data connecting layer.

4. (Currently Amended) The system of claim 1, wherein the slave function includes:
an application layer ~~for performing functions of~~ carrying out a command of the received packet and returning an execution result of the command;
a data connecting layer ~~for performing functions of~~ transmitting the received packet to the application layer, transmitting a NAK packet if an error is found in the received packet, constituting a return packet, and producing an error checking code; and
a physical layer ~~for performing functions of~~ checking an address of the packet produced in the data connecting layer, determining whether a communication line path between the master and slave is vacant to transmit the packet, and delivering the transmitted packet to the data connecting layer.

5. (Original) The system of claim 4, wherein the data connecting layer and the physical layer are constituted as one module.

6. (Currently Amended) The system of claim 1, wherein the first and second home appliances communicate with each other in a half-duplex method ~~in which they can~~ such that the first and second home appliances communicate with each other in both directions ~~but can~~ and are not configured to transmit and receive messages at the same time.

7. (Currently Amended) The system of claim 1, wherein if the first home appliance communicates with a plurality of the second home appliances, the first home appliance ~~firstly~~

transmits and receives one packet to and from one of the second home appliances before starting communication with the next second home appliance.

8. (Currently Amended) A method for remote controlling and monitoring a home appliance, in which a system and a method for remote controlling and monitoring a home appliance are provided with a first home appliance, a second home appliance, and a communication line path for communication between the first and second home appliances, comprising ~~steps of~~:

having a first home appliance perform processes of reading information of the second home appliance to set communication speed and packet length corresponding to the information, constituting a user command as a first packet with the preset length, and transmitting ~~[[it]]~~ the first packet to a second home appliance at the preset speed;

having the second home appliance corresponding to the first packet perform processes of receiving the first packet, checking an error, performing the command of the first packet and constituting the second packet of ACK if ~~any~~ an error is not found in the first packet ~~but~~ and constituting the second packet of NAK if an error is found in the first packet, and transmitting ~~one of the constituted second packet packets~~ to only the first home appliance, wherein the second home appliance is not configured to transmit control commands to the first appliance; and

having the first home appliance perform processes of checking whether the second packet is received, and transmitting the next packet or re-transmitting the first packet according to a ~~the~~ result obtained from said checking.

9. (Currently Amended) The method of claim 8, wherein the first packet includes:

- a starting code (STX) of the packet;
- a requester address, a second home appliance address to which the packet is transmitted;
- a requestee address, a first home appliance address;
- a packet length code ~~showing~~ indicating the number of bytes constituting the packet;
- a message of control orders;
- a CRC code for error checking; and
- an ending code (ETX) of the packet.

10. (Currently Amended) The method of claim 8, wherein the second packet includes:

- a starting code (STX);
- a requester address, a first home appliance address to which the packet is transmitted;
- a requestee address, a second home appliance address from which the packet is transmitted;
- a packet length code ~~showing~~ indicating the number of bytes constituting the packet;
- a control command code and executing or non-executing code;
- a CRC code for error checking; and an ending code (ETX) of the packet.

11. (Currently Amended) The method of claim 8, wherein if the amount of the user command data is more than a preset amount in the second step, the first packet is constituted by being divided and the communication speed is adjusted.